

Patent claims

1. A coolant condensing device, in particular for
5 motor vehicles, with a multiplicity of throughflow
devices arranged essentially parallel to one another,
with two distributing and/or collecting devices which
are fluid-connected at the respective end portions of
the throughflow devices, with at least one separating
10 device which subdivides the distributing and/or
collecting devices into at least one first region and
at least one second region in an essentially gastight
and liquidtight manner, and with at least one collector
which is arranged essentially parallel to at least one
15 of the distributing and/or collecting devices and has
at least two fluid connections at two different regions
of this distributing and/or collecting device and in
which at least one filter device and/or one drying
device is provided, **characterized** in that, in at least
20 one of the fluid connections, the flow direction of the
coolant is, at least in portions, essentially parallel
to the flow direction of the coolant within the
collector.
- 25 2. The device as claimed in claim 1, **characterized** in
that, in one of the fluid connections, the flow
direction of the coolant is, at least in portions,
essentially opposite to the flow direction of the
coolant within the collector.
- 30 3. The device particularly as claimed in at least one
of the preceding claims, **characterized** in that the
collector is produced in one piece.
- 35 4. The device particularly as claimed in at least one
of the preceding claims, **characterized** in that the
collector consists of a plurality of parts.

5. The device particularly as claimed in at least one of the preceding claims, **characterized** in that the collector has at least one component which is designed in the form of an extruded profile.

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6. The device particularly as claimed in at least one of the preceding claims, **characterized** in that the collector has at least one tubular component of predetermined wall thickness.

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7. The device particularly as claimed in at least one of the preceding claims, **characterized** in that there is a fixed, in particular positive or materially integral connection between the collector and the distributing and/or collecting device.

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8. The device particularly as claimed in at least one of the preceding claims, **characterized** in that the collector has at least one cover which is connected to the collector materially integrally, positively and/or nonpositively.

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9. The device particularly as claimed in at least one of the preceding claims, **characterized** in that the collector has at least one cover which is removable with respect to the collector.

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10. The device particularly as claimed in at least one of the preceding claims, **characterized** in that two fluid connections are provided between the distributing and/or collecting device and the collector, one fluid connection leading into a first region of the collector, the other fluid connection leading into another region of the collector and the two regions being spaced apart from one another.

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11. The device as claimed in at least one of the preceding claims, **characterized** in that at least one

fluid connection leads into an essentially end-face portion of the collector.

- 5 12. The device as claimed in at least one of the preceding claims, **characterized** in that the collector is offset laterally with respect to a plane spanned by the distributing and/or collecting devices and the throughflow devices.
- 10 13. The device particularly as claimed in at least one of the preceding claims, **characterized** in that the distributing and/or collecting devices have a plurality of separating devices which subdivide the distributing and/or collecting devices into a plurality of regions
- 15 in essentially a liquidtight manner.
- 20 14. The device particularly as claimed in at least one of the preceding claims, **characterized** in that the drying device and/or the filter device is removable from the collector.
- 25 15. The device particularly as claimed in at least one of the preceding claims, **characterized** in that the collector has a connecting device for connection to the fluid connection.
- 30 16. The device particularly as claimed in at least one of the preceding claims, **characterized** in that, between at least two device devices, there is a connection which is selected from a group which contains welded joints, adhesive bonds, rivet joints or the like.